

Fanshawe College

## FIRST: Fanshawe Innovation, Research, Scholarship, Teaching

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Documentation (Approvals etc...)

Anesthesia Assistant

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2007

### FANS 01262 Anesthesia Assistant - CVS Application

Fanshawe College

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**ONTARIO COLLEGES OF APPLIED ARTS AND TECHNOLOGY  
CREDENTIALS VALIDATION SERVICE**

**APPLICATION FOR PROGRAM VALIDATION**

This proposal will be sent to MTCU for Approval for Funding   **X**   YES             NO

<b>1. College: Fanshawe College – London Campus</b>
<b>2. College contact person responsible for this proposal:</b>  Name: Dennis Hunter  Title: Professor, Respiratory Therapy Program  Telephone: (519) 452-4207  Electronic mail: dhunter@fanshawec.ca
<b>3. Proposed Program Title: ANESTHESIA ASSISTANT</b>
<b>4. Proposed Credential: (please indicate below)</b>  Local Board Approved Certificate <input type="checkbox"/>  Ontario College Certificate <input type="checkbox"/>  Ontario College Diploma <input type="checkbox"/>  Ontario College Advanced Diploma <input type="checkbox"/>  Ontario College Graduate Certificate <input checked="" type="checkbox"/>
<b>5. Proposed Program Outcomes:</b>  Please complete and attach the two Program Maps (Appendix A - Form 1 and Form 2)
<b>6. Proposed Program Description:</b>  Please complete and attach the Program Description Form (Appendix B)
<b>7. Proposed Program Curriculum:</b>  Please complete and attach the Program Curriculum Form (Appendix C)



Provincial Program Description. Again, your proposed program vocational learning outcomes will be added in the middle column.

**NOTE:** *Both these types of documents can be obtained from staff at the CVS or at the Colleges Branch, MTCU.*

The last column will contain a list of the relevant curriculum proposed in your program to address the outcome in a manner that ensures the graduate will have reliably demonstrated the required skill or ability. Course numbers or course codes, corresponding to those provided in your list of courses (Appendix C), are sufficient in this column.

#### **Essential Employability Skills Outcomes:**

A mapping of the Essential Employability Skills (EES) will be done on Form 2 (attached).

The instructions / requirements for this map are the same as for the Vocational Program Map. The first three columns contain the approved skill categories, the defining skills, and the EES learning outcomes. The last column will contain the proposed curriculum (as listed in Appendix C) that will ensure the meeting of these outcomes.

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APPENDIX A - PROGRAM MAPS

Form 1 - Vocational Program Outcomes

PROVINCIAL PROGRAM STANDARD VOCATIONAL LEARNING OUTCOMES / PROVINCIAL PROGRAM DESCRIPTION OUTCOMES	PROPOSED PROGRAM VOCATIONAL LEARNING OUTCOMES	COURSE TITLE / COURSE CODE (From Appendix C)
	1. Operate anesthetic equipment according to Canadian Standards Association (CSA) and Canadian Anesthesiology Society (CAS) guidelines.	ANES 1001 – ANESTHETIC EQUIPMENT ANES 1003 – LABORATORY PROCEDURES I ANES 2002 – PRINCIPLES OF ANESTHESIA CARE
	2. Participate in the provision of comprehensive patient care by applying airway management concepts as required.	ANES 1002 – CARDIOPULMONARY MANAGEMENT ANES 1003 – LABORATORY PROCEDURES I ANES 2002 – PRINCIPLES OF ANESTHESIA CARE ANES 2004 – LABORATORY PROCEDURES II
	3. Use applicable technology systems and software on anesthetic	ANES 1001 – ANESTHETIC EQUIPMENT

	and monitoring equipment in the provision of patient care	ANES 1003 – LABORATORY PROCEDURES I ANES 2002 – PRINCIPLES OF ANESTHESIA CARE ANES 1004 – ONLINE SELF STUDY ANES 2005 - ONLINE SELF STUDY
	4. Interpret patient hemodynamic data and adjust the patient care plan as needed.	ANES 1002 – CARDIOPULMONARY MANAGEMENT ANES 1003 – LABORATORY PROCEDURES I
	5. Provide anesthetic care according to pharmacological principles.	ANES 2001 – ANESTHESIA PHARMACOLOGY ANES 2002 – PRINCIPLES OF ANESTHESIA CARE ANES 2003 – CASE STUDY MANAGEMENT ANES 2004 – LABORATORY PROCEDURES II
	6. Evaluate on-going patient condition and adjust care plan accordingly.	ANES 1001 – ANESTHETIC EQUIPMENT ANES 1002 – CARDIOPULMONARY MANAGEMENT ANES 1003 – LABORATORY PROCEDURES I ANES 2001 – ANESTHESIA PHARMACOLOGY ANES 2002 – PRINCIPLES OF ANESTHESIA CARE ANES 2003 – CASE STUDY MANAGEMENT ANES 2004 – LABORATORY PROCEDURES II ANES 3001 – CLINICAL PRACTICUM
	7. Assist the Anesthesiologist with the patient care plan which may include preoperative assessment, induction, monitoring, maintenance of anesthesia and post-op care.	ANES 1001 – ANESTHETIC EQUIPMENT ANES 1002 – CARDIOPULMONARY MANAGEMENT ANES 1003 – LABORATORY PROCEDURES I ANES 2001 – ANESTHESIA PHARMACOLOGY ANES 2002 – PRINCIPLES OF ANESTHESIA CARE ANES 2003 – CASE STUDY MANAGEMENT ANES 2004 – LABORATORY PROCEDURES II

		ANES 3001 – CLINICAL PRACTICUM
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Add additional rows as required to complete the mapping exercise.

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**APPENDIX A - PROGRAM MAPS**

**Form 2 - Essential Employability Skills Outcomes**

<b>SKILL CATEGORIES</b>	<b>DEFINING SKILLS</b> Skill areas to be demonstrated by the graduates	<b>ESSENTIAL EMPLOYABILITY SKILLS OUTCOMES</b> The graduate has reliably demonstrated the ability to:	<b>COURSE TITLE / COURSE CODE</b> (From Appendix C)
<b>COMMUNICATION</b>	<ul style="list-style-type: none"> <li>• Reading</li> <li>• Writing</li> <li>• Speaking</li> <li>• Listening</li> <li>• Presenting</li> <li>• Visual Literacy</li> </ul>	➤ communicate clearly, concisely, and correctly in the written, spoken, and visual form that fulfils the purpose and meets the needs of the audience	All courses
		➤ respond to written, spoken, or visual messages in a manner that ensures effective communication	All courses
<b>NUMERACY</b>	<ul style="list-style-type: none"> <li>• Understanding and applying mathematical concepts and reasoning</li> <li>• Analysing and using</li> </ul>	➤ execute mathematical operations accurately	All courses



SKILL CATEGORIES	DEFINING SKILLS Skill areas to be demonstrated by the graduates	ESSENTIAL EMPLOYABILITY SKILLS OUTCOMES The graduate has reliably demonstrated the ability to:	COURSE TITLE / COURSE CODE (From Appendix C)
	numerical data • Conceptualizing		
CRITICAL THINKING & PROBLEM SOLVING	• Analysing • Synthesizing • Evaluating Decision-making Creative and innovative thinking	➤ apply a systematic approach to solve problems	All courses
		➤ use a variety of thinking skills to anticipate and solve problems	All courses
INFORMATION MANAGEMENT	Gathering and managing information Selecting and using appropriate tools and technology for a task or a project Computer literacy Internet skills	➤ locate, select, organize, and document information using appropriate technology and information systems	ANES 1001 – ANESTHETIC EQUIPMENT ANES 1002 – CARDIOPULMONARY MANAGEMENT ANES 1003 – LABORATORY PROCEDURES I ANES 2002 – PRINCIPLES OF ANESTHESIA CARE ANES 2003 – CASE STUDY MANAGEMENT ANES 2004 – LABORATORY PROCEDURES II ANES 3001 – CLINICAL

SKILL CATEGORIES	DEFINING SKILLS Skill areas to be demonstrated by the graduates	ESSENTIAL EMPLOYABILITY SKILLS OUTCOMES The graduate has reliably demonstrated the ability to:	COURSE TITLE / COURSE CODE (From Appendix C)
			PRACTICUM
		➤ analyse, evaluate, and apply relevant information from a variety of sources	ANES 1003 – LABORATORY PROCEDURES I ANES 2004 – LABORATORY PROCEDURES II ANES 3001 – CLINICAL PRACTICUM
INTER-PERSONAL	<ul style="list-style-type: none"> <li>• Team work</li> <li>• Relationship management</li> <li>• Conflict resolution</li> <li>• Leadership</li> <li>• Networking</li> </ul>	➤ show respect for the diverse opinions, values, belief systems, and contributions of others	All courses
		➤ interact with others in groups or teams in ways that contribute to effective working relationships and the achievement of goals	All courses
PERSONAL	<ul style="list-style-type: none"> <li>• Managing self</li> <li>• Managing change and</li> </ul>	➤ manage the use of time and other resources to complete projects	All courses

SKILL CATEGORIES	DEFINING SKILLS Skill areas to be demonstrated by the graduates	ESSENTIAL EMPLOYABILITY SKILLS OUTCOMES The graduate has reliably demonstrated the ability to:	COURSE TITLE / COURSE CODE (From Appendix C)
	being flexible and adaptable <ul style="list-style-type: none"> <li>Engaging in reflective practices</li> </ul>		
	<ul style="list-style-type: none"> <li>Demonstrating personal responsibility</li> </ul>	➤ take responsibility for one's own actions, decisions, and consequences	All courses

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APPENDIX B - PROGRAM DESCRIPTION

**PROGRAM DESCRIPTION:** (including occupational areas where it is anticipated graduates will find employment).

**Anesthesia Assistant:**

This three semester post graduate program trains students to become a valuable member of the anesthesia care team. The Anesthesia Assistant is a specially trained, health professional that participates in the care of the surgical patient during general, regional, or local anesthesia under the immediate supervision of an anesthesiologist. Graduates will find employment in hospitals across Canada working primarily in the operating room but also in such areas as post-operative care areas, labour and delivery, emergency, and intensive care.

**VOCATIONAL PROGRAM LEARNING OUTCOMES:** (vocational program learning outcomes must be consistent with the requirements of the Credentials Framework for the proposed credential)

*The graduate has reliably demonstrated the ability to:*

1. Operate anesthetic equipment according to Canadian Standards Association (CSA) and Canadian Anesthesiology Society (CAS) guidelines.
2. Participate in the provision of comprehensive patient care by applying airway management concepts as required.
3. Use applicable technology systems and software on anesthetic and monitoring equipment in the provision of patient care.
4. Interpret patient hemodynamic data and adjust the patient care plan as needed.

5. Provide anesthetic care according to pharmacological principles.
6. Evaluate on-going patient condition and adjust care plan accordingly.
7. Assist the Anesthesiologist with the patient care plan which may include preoperative assessment, induction, monitoring, maintenance of anesthesia and post-op care.

**ADMISSION REQUIREMENTS:**

Registered Respiratory Therapist with a current Certificate of Registration in the province of Ontario with 2 years full time or equivalency in the past 5 years

Registered Nurse with a current Certificate of Competence in the province of Ontario with 2 years full time or equivalency in the past 5 years.

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**APPENDIX C - PROGRAM CURRICULUM**

<b>Semester</b>	<b>Course Code*</b>	<b>Course Title (and brief course description)</b>
<b>1</b>	<b>ANES 1001</b>	<p><b>ANESTHESIA EQUIPMENT</b></p> <p>This course introduces students to anesthetic equipment commonly used in the operating room in order to assist the anaesthesiologist. It provides the student with a sound knowledge base in the operation of the anesthetic gas machine and all its components such as vaporizers, breathing systems, ventilators, anti-pollution equipment and gas monitors. The student will practice pre-surgery checks of all equipment according to CAS guidelines.</p>
<b>1</b>	<b>ANES 1002</b>	<p><b>CARDIOPULMONARY MANAGEMENT</b></p> <p>This course introduces students to standards required for a pre-operative assessment. The student will learn techniques for non-complicated intubations for adult, pediatric and neonatal patients. Hemodynamic monitoring for all patients will be discussed as it's applied in the operating room (OR). This includes the equipment, patient selection criteria, and techniques for such things:</p> <ul style="list-style-type: none"> <li>• arterial line insertion</li> <li>• arterial blood gases</li> <li>• non-invasive blood pressure</li> <li>• central venous pressure</li> <li>• pulmonary artery pressure</li> <li>• mixed venous saturations</li> <li>• peripheral nerve stimulator</li> <li>• intracranial pressure monitoring</li> </ul>

<b>1</b>	<b>ANES 1003</b>	<b>LABORATORY PROCEDURES I</b>  This course allows the student to perform practical applications of anesthetic equipment and techniques in a supervised and controlled laboratory environment as discussed in ANES 1001 and ANES 1002.  Included but not restricted to the following: <ul style="list-style-type: none"> <li>• anesthetic gas machine set up and check out</li> <li>• anesthetic gas and hemodynamic monitors</li> <li>• case studies scenarios</li> </ul>
<b>1</b>	<b>ANES 1004</b>	<b>INDEPENDENT LEARNING I</b>  This course allows the student to participate in weekly online discussions and assignments on specific topics provided by the instructor. Examples include: <ul style="list-style-type: none"> <li>• determine which pre-op airway classification is best</li> <li>• discuss equipment setup changes for malignant hyperthermia</li> <li>• explain the differences between equipment &amp; techniques for adult, pediatric and neonatal patients</li> </ul>
<b>2</b>	<b>ANES 2001</b>	<b>ANESTHESIA PHARMACOLOGY</b>  This course discusses anesthesia pharmacology. Specific areas include: <ul style="list-style-type: none"> <li>• muscle relaxants</li> <li>• inhalation anesthesia</li> <li>• intravenous anesthesia</li> <li>• neuoroleptanesthesia</li> <li>• local anesthesia</li> <li>• regional anesthesia</li> <li>• post-op pain management.</li> </ul>
<b>2</b>	<b>ANES 2002</b>	<b>PRINCIPLES OF ANESTHESIA CARE</b>  a) The first part of this course introduces the student to the concepts of anesthesia and basic procedures required when a patient enters the OR for surgery.  b) The second part of the course discusses techniques to start, maintain and discontinue anesthesia.  c) Part three of the course explores post operative care.

<b>2</b>	<b>ANES 2003</b>	<b>CASE STUDY MANAGEMENT</b> The student will be presented with patient scenarios each week which will include for discussion: <ul style="list-style-type: none"> <li>• Pre-operative evaluation and preparation</li> <li>• Induction techniques</li> <li>• Monitoring</li> <li>• Patient Positioning</li> <li>• Fluid &amp; Blood therapy</li> <li>• Maintenance, Emergence, Discontinuation</li> <li>• Post Anesthesia Care</li> </ul>
<b>2</b>	<b>ANES 2004</b>	<b>LABORATORY PROCEDURES II</b> This course allows the student to practice case scenarios as discussed in a supervised and controlled laboratory environment as discussed in ANES 2002 and ANES 2003.
<b>2</b>	<b>ANES 2005</b>	<b>INDEPENDENT LEARNING II</b> This course allows the student to participate in weekly online discussions and assignments on specific topics provided by the instructor. Examples include: <ul style="list-style-type: none"> <li>• discuss fluid and blood therapy as it pertains to the patient's condition</li> <li>• describe patient positioning techniques</li> <li>• explain the induction techniques for adult, pediatric and neonatal patients</li> </ul>
<b>3</b>	<b>ANES 3001</b>	<b>CLINICAL PRACTICUM</b> Under the direction of the attending Anesthesiologist, this course allows the student to apply the knowledge gained from all didactic courses in the operating room.

Add additional rows as required to complete the curriculum chart.

\* (be sure to identify those courses designed to deliver General Education)